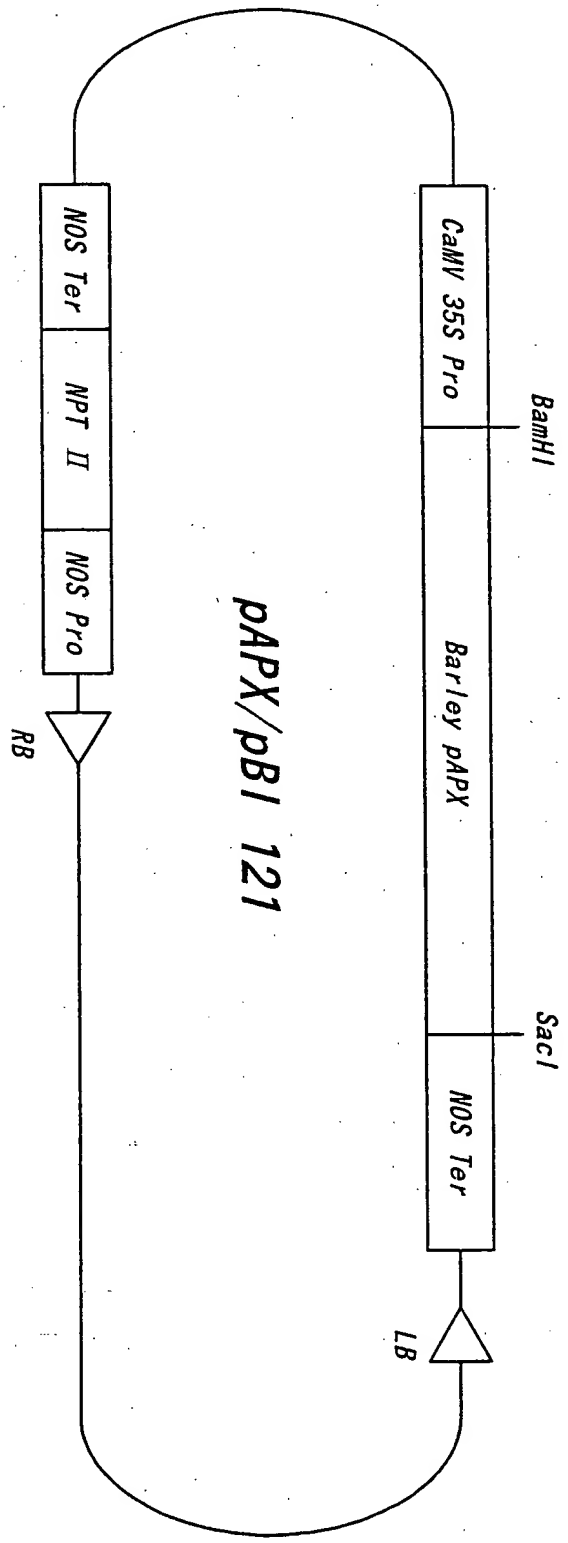
NOS Ter
NPT II
NOS Pro
RB
CaMV 35S Pro
BamHI
Barley pAPX
SacI
NOS Ter
LB
pAPX/pBI 121

FIG. 1

FIG. 2

```
CTTCTAGGGTCGTCCGCGATGGCGGCTCCGGTGGTGGACGCCGAGTACCTGCGCCAGGTC
                    M  A  A  P  V  V  D  A  E  Y  L  R  Q  V
GACAGGGCGCGCCGCGCCTTCCGTGCCCTCATCGCCTCCAAGGGATGCGCCCCCATCATG  120
 D  R  A  R  R  A  F  R  A  L  I  A  S  K  G  C  A  P  I  M   34
CTCCGCCTCGCATGGCATGATGCTGGCACCTATGATGTGAACACAAGAACTGGTGGTGCA
 L  R  L  A  W  H  D  A  G  T  Y  D  V  N  T  R  T  G  G  A
AATGGTTCAATTAGATACGAGGAAGAGTACACCCATGGTTCAAATGCTGGCTTAAAAATT  240
 N  G  S  I  R  Y  E  E  E  Y  T  H  G  S  N  A  G  L  K  I   74
GCTATTGATCTCCTTGAGCCTATTAAAGCGAAGCATCCAAAGATTACATATGCAGACCTT
 A  I  D  L  L  E  P  I  K  A  K  H  P  K  I  T  Y  A  D  L
CATCAGCTTGCCGGAGTAGTTGCAGTTGAAGTCACCGGGGGTCCAACCGTTGAGTTCATC  360
 H  Q  L  A  G  V  V  A  V  E  V  T  G  G  P  T  V  E  F  I  114
CCTGGAAGACGTGATTCGTCAGTTTGTCCCCGTGAAGGACGCCTTCCTGATGCTAAGAAA
 P  G  R  R  D  S  S  V  C  P  R  E  G  R  L  P  D  A  K  K
GGTGCACCACATCTAAGGGACATCTTTTATCGAATGGGGTTAACAGACAAAGATATTGTA  480
 G  A  P  H  L  R  D  I  F  Y  R  M  G  L  T  D  K  D  I  V  154
GCACTATCTGGGGGGCACAGCCTGGGAAAGGCGCATCCTGAAAGGTCTGGGTTTGACGGT
 A  L  S  G  G  H  S  L  G  K  A  H  P  E  R  S  G  F  D  G
GCATGGACTCGTGACCCTCTGAAATTTGACAACTCATACTTTCTTGAGCTACTGAAGGGG  600
 A  W  T  R  D  P  L  K  F  D  N  S  Y  F  L  E  L  L  K  G  194
GAATCTGAGGGTCTTCTGAAGCTCCCTACTGATAAGGCATTGTTGGATGATCCTGAATTT
 E  S  E  G  L  L  K  L  P  T  D  K  A  L  L  D  D  P  E  F
CGACGCTATGTGGAGCTTTATGCAAAGGATGAGGATGTTTTCTTCAAGGACTACGCTGAA  720
 R  R  Y  V  E  L  Y  A  K  D  E  D  V  F  F  K  D  Y  A  E  234
TCACACAAAAAACTTTCTGAACTTGGCTTCACACCACGGAGCAGTGGCCCAGCATCTACA
 S  H  K  K  L  S  E  L  G  F  T  P  R  S  S  G  P  A  S  T
AAATCAGATGTTTCAACTGCTGTTGTACTTGCACAGAGTGCAGTCGGGGTAGCAGTTGCT  840
 K  S  D  V  S  T  A  V  V  L  A  Q  S  A  V  G  V  A  V  A  274
GCAGCTGTAGTTATCGCGGGCTACCTGTACGAAGCTTCCAAGAGGAGCAAGTAAGGGGTT
 A  A  V  V  I  A  G  Y  L  Y  E  A  S  K  R  S  K  * 291

CGTGAGTTCTTGGATGACATTCCCTTATTTAGTAAGTATCAAGTTATTATTCTAAAAAAA  960
TAAGTGCCAAGTGCAAATAACAGAACTCTAGTGATGAACAACCAACAGTAGTCTCAAAAT
ATTTCATACATTCTTGAGGACATCTCCTTCATATATATACATCATACTTGAATAAAAAAA 1080
AAAAAAAAA 1089
```

FIG. 3

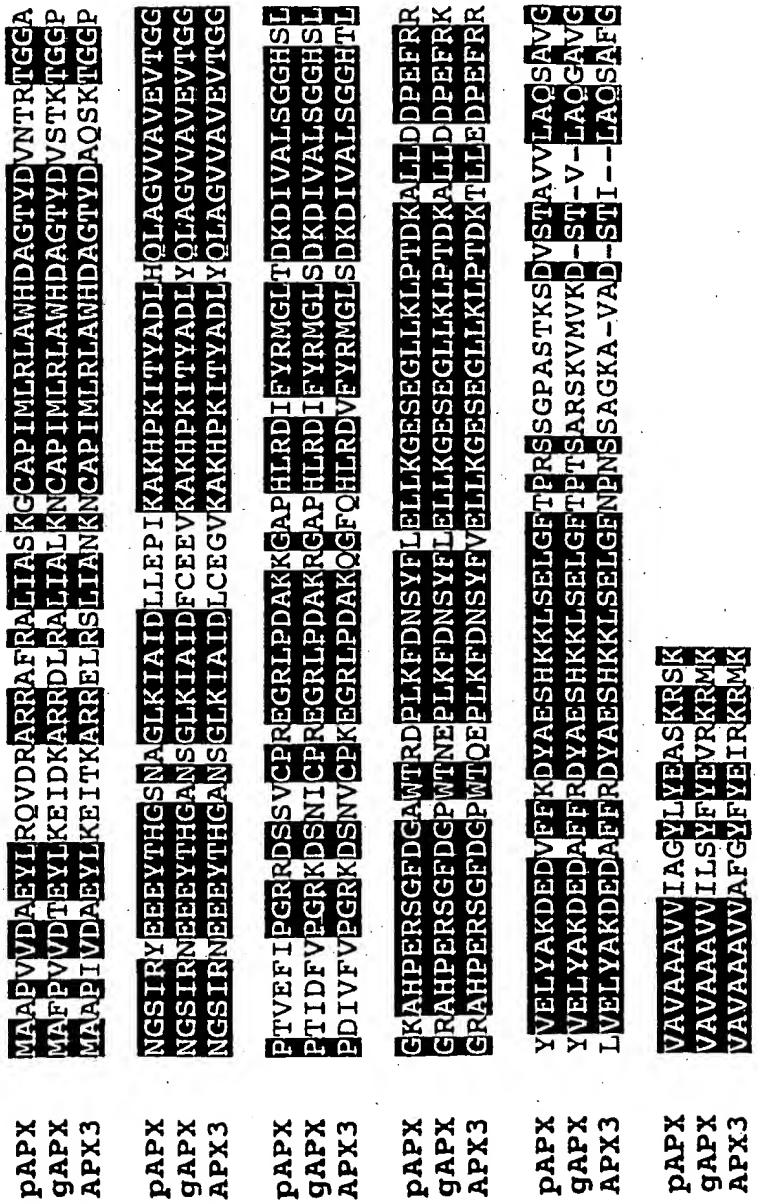

FIG. 4

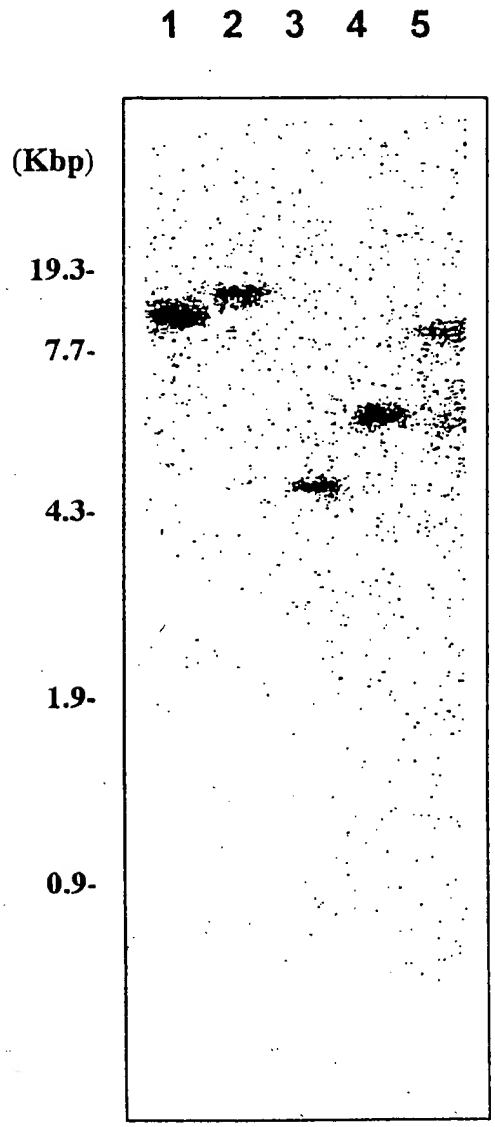

FIG. 5

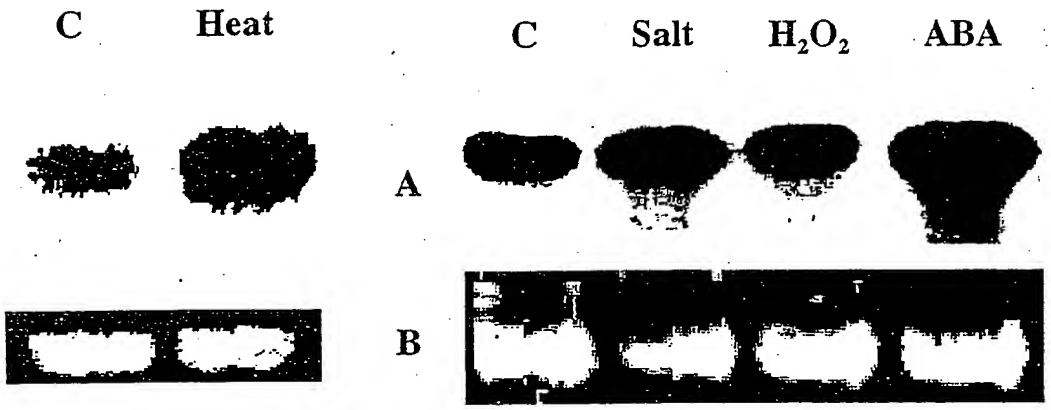

FIG. 6

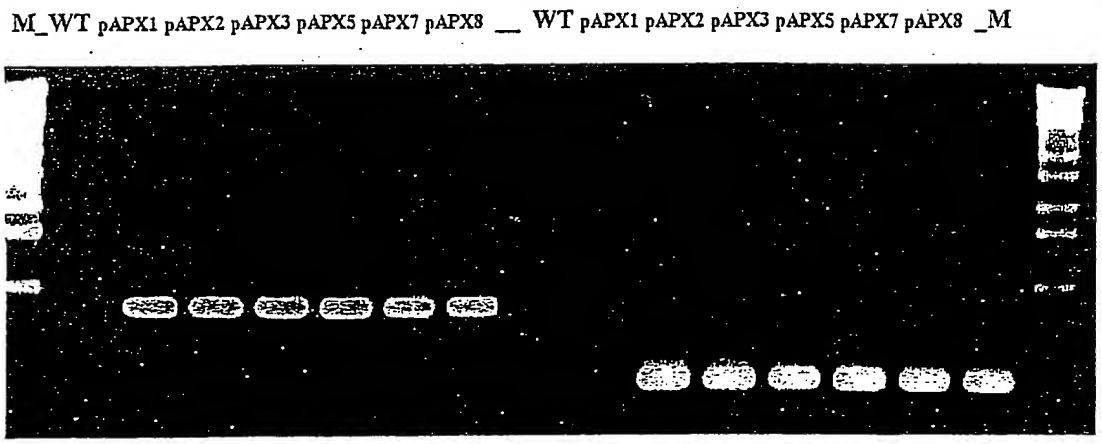
M_WT pAPX1 pAPX2 pAPX3 pAPX5 pAPX7 pAPX8 __ WT pAPX1 pAPX2 pAPX3 pAPX5 pAPX7 pAPX8 _M

FIG. 7

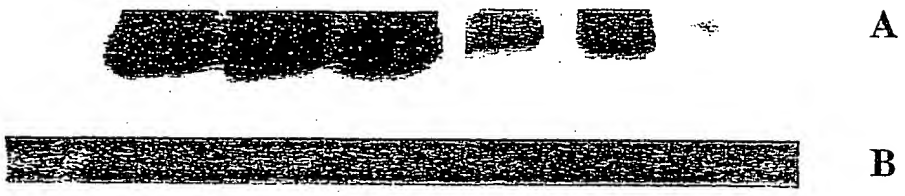

FIG. 8

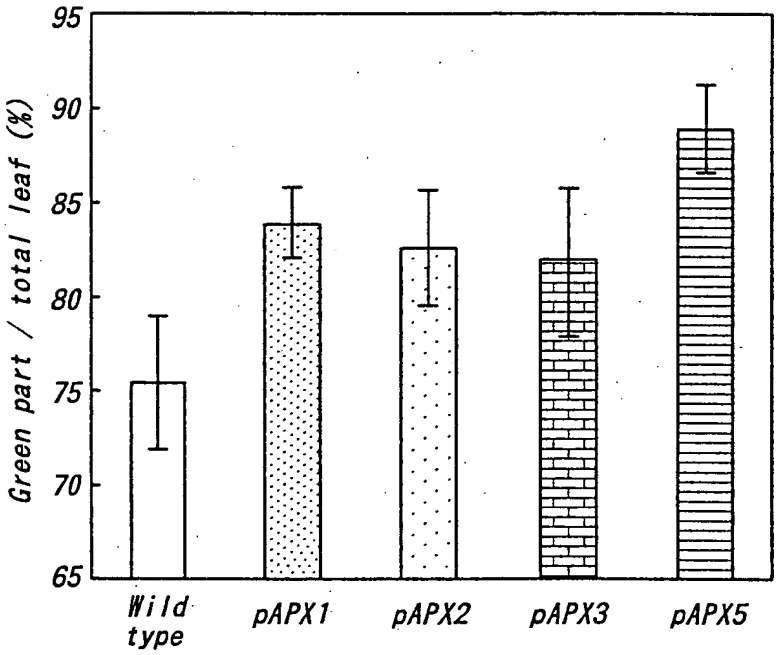
95
90
85
80
75
70
65
Green part / total leaf (%)
Wild type
pAPX1
pAPX2
pAPX3
pAPX5

FIG. 9